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U.S. APPLICATION NUMBER NO. 10/502,085	FIRST NAMED APPLICANT Zi-Hua Jiang	ATTY. DOCKET NO. JIANG4A
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INTERNATIONAL APPLICATION NO. PCT/CA03/00135

I.A. FILING DATE 02/04/2003	PRIORITY DATE 02/04/2002
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001444
 BROWDY AND NEIMARK, P.L.L.C.
 624 NINTH STREET, NW
 SUITE 300
 WASHINGTON, DC 20001-5303

CONFIRMATION NO. 3733
 371 FORMALITIES LETTER
 OC000000016945978
 OC000000016945978

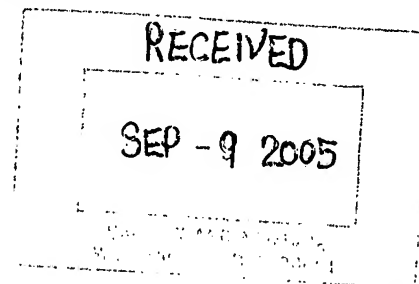
Date Mailed: 09/07/2005

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 07/22/2004
- Copy of the International Search Report filed on 07/22/2004
- Preliminary Amendments filed on 04/12/2005
- Biochemical Sequence Diskette filed on 06/08/2005
- Oath or Declaration filed on 04/12/2005
- Biochemical Sequence Listing filed on 06/08/2005
- Request for Immediate Examination filed on 07/22/2004
- U.S. Basic National Fees filed on 07/22/2004
- Priority Documents filed on 07/22/2004
- Power of Attorney filed on 07/22/2004

RESPONSE = 07002005
 NON EXT



Applicant's response filed 06/08/2005 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 12/17/2004 have not been completed.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3026 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov**

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

SHAKEEL AHMED

Telephone: (703) 308-9140 EXT 208

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/502,085	PCT/CA03/00135	JIANG4A

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/502,085A

Source:

PCT

Date Processed by STIC:

7-7-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/502,085A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☒ Use of <220> Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 07/07/2005

PATENT APPLICATION: US/10/502,085A

TIME: 13:46:34

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\07072005\J502085A.raw

3 <110> APPLICANT: BIOMIRA INC. et al.
 5 <120> TITLE OF INVENTION: IMMUNOSTIMULATORY, COVALENTLY LIPIDATED OIGONUCLEOTIDES
 7 <130> FILE REFERENCE: JIANG=4A PCT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/502,085A
 C--> 10 <141> CURRENT FILING DATE: 2004-07-22
 12 <150> PRIOR APPLICATION NUMBER: 60/353,195
 13 <151> PRIOR FILING DATE: 2002-02-04
 15 <160> NUMBER OF SEQ ID NOS: 12
 17 <170> SOFTWARE: PatentIn version 3.3
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 10
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: 128H described in Cheng et al. USP 5,646,126
 27 <400> SEQUENCE: 1
 28 cacacgtgtg
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 25
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Synthesized peptide shown in Fig. 17 BP1-148
 39 <400> SEQUENCE: 2
 41 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg
 42 1 5 10 15
 45 Pro Ala Pro Gly Ser Thr Ala Pro Pro
 46 20 25
 49 <210> SEQ ID NO: 3
 50 <211> LENGTH: 20
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Artificial Sequence
 54 <220> FEATURE:
 55 <223> OTHER INFORMATION: Synthesizable activating sequence, shown in Fig. 1.
 57 <400> SEQUENCE: 3
 58 ggtgcatcga tgcagggggg
 61 <210> SEQ ID NO: 4
 62 <211> LENGTH: 10
 63 <212> TYPE: PRT
 64 <213> ORGANISM: Leishmani major
 66 <400> SEQUENCE: 4
 68 Glu Ala Glu Glu Ala Ala Arg Leu Gln Ala
 69 1 5 10

Does Not Comply
 Corrected Diskette Needed

(pg.1)

Please explain
 Source of genetic material.

Invalid
 Response

10

Please see
 item #
 11 on
 error
 Summary
 Sheet.

20

RAW SEQUENCE LISTING

DATE: 07/07/2005

PATENT APPLICATION: US/10/502,085A

TIME: 13:46:34

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\07072005\J502085A.raw

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72 <210> SEQ ID NO: 5
73 <211> LENGTH: 25
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: MUC1 repeat consensus sequence
80 <400> SEQUENCE: 5
82 Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala Gln Thr Ala His Gly Val .
83 1          5          10          15
86 Thr Ser Ala Pro Asp Glu Thr Ser Arg
87          20          25
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 12
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: MUC1 fragment
98 <400> SEQUENCE: 6
100 Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr
101 1          5          10
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 9
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: MUC1 fragment
112 <400> SEQUENCE: 7
114 Thr Leu Ala Pro Ala Thr Glu Pro Ala
115 1          5
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 9
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: MUC1 fragment
126 <400> SEQUENCE: 8
128 Ala Leu Gly Ser Thr Ala Pro Pro Val
129 1          5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 9
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: MUC1 fragment
140 <400> SEQUENCE: 9
142 Phe Leu Ser Phe His Ile Ser Asn Leu
143 1          5
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 20

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/502,085A

DATE: 07/07/2005

TIME: 13:46:34

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\07072005\J502085A.raw

```

148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: MUC1 repeat
154 <400> SEQUENCE: 10
156 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
157 1           5           10           15
160 Pro Pro Ala His
161           20
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 28
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Synthesized peptide shown in Fig. 17 as intermediate
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (27)..(27)
176 <223> OTHER INFORMATION: Lys is modified by a palmitoyl group
178 <400> SEQUENCE: 11
180 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Pro Asp Thr
181 1           5           10           15
184 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Lys Gly
185           20           25
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 12
190 <212> TYPE: PRT
191 <213> ORGANISM: Plasmodium falciparum
193 <400> SEQUENCE: 12
195 Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro
196 1           5           10

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/502,085A

DATE: 07/07/2005

TIME: 13:46:35

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\07072005\J502085A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date